

(19)



JAPANESE PATENT OFFICE

PATENT ABSTRACTS OF JAPAN

(11) Publication number: 09151392 A

(43) Date of publication of application: 10.06.97

(51) Int. Cl

C11D 1/72
C11D 17/06

(21) Application number: 08253236

(22) Date of filing: 25.09.96

(30) Priority: 28.09.95 JP 07250641

(71) Applicant: LION CORP

(72) Inventor: HORIE HIROMICHI
TAKAHASHI YOSHIHARU
IWABUCHI HIROYUKI
ABE SEIJI

(54) GRANULAR NONIONIC DETERGENT
COMPOSITION

(57) Abstract:

PROBLEM TO BE SOLVED: To obtain a granular nonionic detergent composition, good in fluidity, hardly causing an alcohol and an ester odors and consisting essentially of a nonionic surfactant.

surfactant having the average number (n) ± 2 of mol of the added ethylene oxide based on the whole nonionic surfactant and 23wt.% nonionic surfactant having the average number (n) ± 5 of mol of the added ethylene oxide based on the whole nonionic surfactant. The granular surfactant can be produced by stirring or granulation or crushing and granulation after kneading and extruding.

COPYRIGHT: (C)1997,JPO

SOLUTION: This granular nonionic detergent composition consists essentially of a nonionic surfactant having an ethylene oxide adduct in the molecule and further the following characteristics: (1) the average number (n) of mol of added ethylene oxide within the range of 5-25 and (2) the nonionic surfactant having a distribution of 310wt.% nonionic surfactant having the average number (n) of mol of the added ethylene oxide based on the whole nonionic surfactant, 39wt.% nonionic surfactant having the average number (n) ± 1 of mol of the added ethylene oxide based on the whole nonionic surfactant, 38wt.% nonionic